## Amendments to the Specification

Amend paragraph [0001] as follows:

[0001] The <u>present</u> invention relates to a method for producing a connection area on a work piece which is positioned precisely with respect to a reference area on the work piece, according to the preamble of patent claim 1. The <u>present</u> invention also relates to a device for carrying out the method.

Add the following <u>new</u> heading before paragraph [0002]:

**BACKGROUND** 

Add the following <u>new</u> heading before paragraph [0009]:

SUMMARY OF THE INVENTION

Amend paragraph [0009] as follows:

[0009] The invention is therefore based on the object of proposing An object of the present invention is to propose a method for producing connection areas on a work piece, in particular on a vehicle body, in a precisely positioned fashion, which method is associated with a significantly reduced degree of calibration work and permits significantly more cost-effective sensors to be used. In addition, the intention is to increase the accuracy in comparison with conventional methods. The invention is also based on the object of proposing An alternate or additional object is to propose a device which is suitable for carrying out the method.

Delete paragraph [0010].

Amend paragraph [0011] as follows:

[0011] According to said claims, a A sensor system which is fixedly permanently connected to the tool and forms a robot-guided tool/sensor combination with it and is used to position the processing tool with respect to the vehicle body. This tool/sensor combination is firstly moved under robot control into a proximity position (which is permanently programmed and

independent of the current position of the vehicle body) with respect to the vehicle body and is then moved, in the course of a closed-loop control process, into a preliminary position (oriented with respect to the reference area on the vehicle body in a precisely positioned fashion). In the closed-loop control process which moves the tool/sensor combination from the proximity position into the preliminary position, (actual) measured values of the reference area are generated on the vehicle body by the sensor system; these (actual) measured values are compared with (setpoint) measured values which are generated in a preceding setup phase, and then the tool/sensor combination is moved by an amount equal to a movement vector (comprising linear movement and/or rotations) which is calculated using what is referred to as a "Jacobi matrix" (or "sensitivity matrix") from the difference between the (actual) and (setpoint) measured values. Both the (setpoint) measured values and the Jacobi matrix are determined within the scope of a setup phase, preceding the actual positioning and processing operations, for the respective tool/sensor combination together with the vehicle body area to be processed. This setup phase is run through once in the course of the setting of a new combination of tool, sensor system, vehicle body type and processing problem.

Add the following <u>new</u> heading before paragraph [0023]:

BRIEF DESCRIPTION OF THE DRAWINGS

Amend paragraph [0023] as follows:

[0023] Further advantageous embodiments of the invention can be found in the subclaims. The invention is explained in more detail below with reference to two exemplary embodiments which are illustrated in the drawings, in which:

Add the following <u>new</u> heading before paragraph [0030]:

**DETAILED DESCRIPTION**